

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A projection system ~~for image reproduction by means of comprising:~~
at least one lamp ~~as well as~~
at least one sensor for generating a sensor signal for monitoring changes in ~~the~~ luminous flux generated by said at least one lamp and for compensating ~~these the~~ changes ~~through a suitable control of the image reproduction, with a device comb filter for~~ eliminating substantially periodic interference components from the sensor signal generated by the at least one sensor, wherein filter characteristic of the comb filter is controllable by means of a signal synchronous with a control signal of a color modulator which causes the interference components.

2. (Currently Amended) The projection system as claimed in claim 1, wherein said ~~device comprises a comb filter for filtering~~ is configured to filter the sensor signal and for at least to substantially suppressing-suppress frequency components of the sensor signal generated by the interference components.

Claim 3 (Canceled)

4. (Currently Amended) The projection system as claimed in claim 1, ~~wherein the device comprises further comprising an~~ amplifier for the sensor signal whose amplification can be switched is switchable in accordance with ~~the~~ frequency of the interference components so as to achieve an at least substantial suppression of the interference components.

5. (Withdrawn-Currently Amended) ~~A~~ The projection system as claimed in claim 1, ~~wherein the device comprises further comprising~~ a unit (36; 36a) for generating a sliding average of the sensor signal synchronized with the interference components, as well as and a subtractor (37; 37a) for subtracting this the sliding average

from the sensor signal.

6. (Withdrawn-Currently Amended) A-The projection system as claimed in claim 5, with further comprising a micro controller ~~(431)~~ with a digital signal processing which comprises an analog/digital converter ~~(A/D)~~ for digitizing the ~~fed~~-sensor signal, ~~the unit (36a) in a digital embodiment~~ and a digital/analog converter (D/A) for converting the digital average value of the sensor signal generated with said unit ~~(36a)~~ into an analog sensor signal.

7. (Withdrawn-Currently Amended) A-The projection system as claimed in claim 6, ~~in which wherein~~ the micro controller ~~(431)~~ comprises the subtractor ~~(37a)~~ in a digital embodiment, wherein one input of the subtractor ~~(37a)~~ is connected with ~~the an~~ output of the unit ~~(36a)~~ and ~~the other another~~ input of the subtractor is connected with ~~the an~~ output of the analog/digital converter ~~(A/D)~~, and wherein ~~the an~~ output of the subtractor ~~(37a)~~ is connected with ~~the an~~ input of the digital/analog converter ~~(D/A)~~.

8. (Withdrawn-Currently Amended) A The projection system as claimed in claim 7, in which the micro controller ~~(431)~~ instead of the digital/analog converter (D/A) comprises a transmitting unit ~~(435)~~ for generating a modulated sensor output signal for transmitting the same modulated sensor output signal to a lamp driver unit ~~(40)~~.

9. (Withdrawn-Currently Amended) A The projection system as claimed in claim 6, ~~in which wherein~~ the micro controller ~~(431)~~ is provided for generating configured to generate a synchronicity signal ~~on the basis of~~ based on an analysis of the sensor signal which is fed to the micro controller ~~(431)~~, with respect to periodically repeating wave forms, wherein the synchronicity signal is used for slidingly averaging the sensor signal.

10. (Withdrawn-Currently Amended) The projection system as claimed in claim 1, ~~with a wherein the~~ color modulator is configured for a time-sequential generation of primary colors, ~~wherein said device comprises and further comprising a~~ filter arrangement for splitting up a light portion guided in the

projection system into the primary colors, ~~as well as and an~~
~~arrangement for the compensation of compensating~~ different
sensitivities of the at least one sensor to the primary colors
through amplification and/or damping of ~~the a~~ relevant primary
colors.

11. (Withdrawn-Currently Amended) ~~A-The~~ projection system as
claimed in claim 10, wherein said arrangement for ~~the compensation~~
~~of the different sensitivities of the sensor compensating~~ comprises
at least a transmission filter ~~(311, 321, 331)~~ having a suitably
determined transmittance.

12. (Withdrawn-Currently Amended) ~~A-The~~ projection system as
claimed in claim 10, ~~wherein further comprising a further sensor~~
~~(301, 302, 303) with and~~ an amplifier ~~(312, 322, 332) is provided~~
for each primary color, and wherein ~~the~~ amplification of at least
one of the amplifiers is adjustable for compensating for the
different sensitivities of the further sensors ~~(301, 302, 303)~~ to
the primary colors, and a mixer ~~(342) is provided for~~ mixing the
output signals of the amplifiers.

13. (Withdrawn-Currently Amended) The projection system as claimed in claim 1, ~~with further comprising~~ a lamp driver unit ~~comprising having~~ at least one of the ~~sensors~~ sensor and/or the ~~device for eliminating substantially periodic interference components from the sensor signal generated by the at least one sensor~~ comb filter, wherein at least one optical fiber is provided for connecting the at least one sensor optically with ~~the a~~ light path of the light generated by the lamp.

14. (Currently Amended) The projection system as claimed in claim 1, wherein ~~the control of the an~~ image representation can be achieved through a control of ~~the brightness of the represented~~ image representation.

15. (Currently Amended) The projection system as claimed in claim 14, wherein the brightness of the ~~represented image~~ representation can be controlled through a change in the lamp current.

16. (Currently Amended) The projection system as claimed in claim 14, wherein the brightness of the ~~represented image~~ representation can be controlled by an electrically controllable filter, and/or by a gray level mask added to the ~~image information~~ representation, and/or by a modification of ~~the switching periods~~ of ~~the a display~~.

17. (Currently Amended) ~~The projection system as claimed in claim 1, with A projection system comprising:~~
at least one lamp;
at least one sensor for generating a sensor signal for
monitoring changes in luminous flux generated by said at least one
lamp and for compensating the changes with a device for eliminating
substantially periodic interference components from the sensor
signal generated by the at least one sensor; and

a time-sequential color rendering, wherein the periodic
interference components are generated by the primary colors
generated by a color modulator, and wherein the primary colors can
be adjusted by means of the device for eliminating the interference
components such that the a color temperature of the represented an

image projected by the projection system is adjustable.

18.(New) A projection system comprising:

at least one lamp;

at least one sensor for generating a sensor signal for monitoring changes in luminous flux generated by said at least one lamp and for compensating the changes; and

a filter for substantially eliminating from the sensor signal interference components caused by a device; wherein filter characteristic of the filter is controllable by a signal synchronous with the device that causes the interference components.

19.(New) The projection system of claim 19, wherein the filter is a comb filter.

20.(New) A projection system comprising:

at least one lamp;

at least one sensor for generating a sensor signal for monitoring changes in luminous flux generated by said at least one

lamp and for compensating the changes; and

a rendering unit configured to provide time-sequential color rendering, wherein interference components are generated by primary colors generated by a device, and wherein the primary colors are adjustable by the device for eliminating the interference components such that a color temperature of an image projected by the projection system is adjustable.